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1 A study of the applicability of existing exception-handling techniques to compone
◆ technology
Jun Lang, David B. Stewart
March 1998   **Transactions on Programming Languages and Systems (TOPLAS)** ,
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (220.57 KB)   Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 96,   Downloads (Overall):

This study focuses on the current state of error-handling technology and concludes w
research in error handling for component-based real-time software. With real-time pr
complexity, the quality ...

Keywords: component-based software, error detection and handling, faults, reconfig
timing and deadline failures

2 Design and evaluation of a wide-area event notification service
◆ Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf
August 2001   **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 3
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (1.08 MB)   Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 37,   Downloads (12 Months): 307,   Downloads (Overall):

The components of a loosely coupled system are typically designed to operate by ger
asynchronous events. An event notification service is an application-independent infr
construction ...

Keywords: content-based addressing and routing, event notification, publish/subscr

3 Decomposition of preemptive scheduling in the Go! component-based operating
◆ Greg Law, Julie McCann
September 2000   **EW 9:** Proceedings of the 9th workshop on ACM SIGOPS European work
challenges for the operating system
Publisher: ACM
Full text available: 📄 Pdf (186.29 KB)   Additional Information: full citation, abstract, references
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Embedded systems are required to exhibit ever increasing functionality while continu
next generation of embedded operating systems must support protection with very lc
(dynamically) configurable. ...

4
HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers
November 2003 **OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN conference
systems, languages, and applications

Publisher: ACM ◇ Request Permissions

Full text available: 🗎 Pdf (311.06 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 49,   Downloads (Overall): 22

In an evolving software system, components must be able to change independently v
their peers. One obstacle to independent evolution is the *brittle parameter problem*:
communicate can ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented pro
semi-structured data, software evolution, ubiquitous computing

Also published in:
November 2003 **SIGPLAN Notices** Volume 38 Issue 11

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5 Performance monitoring of java applications
M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei
July 2002   **WOSP '02:** Proceedings of the 3rd international workshop on Software and

Publisher: ACM ◇ Request Permissions

Full text available: 🗎 Pdf (219.69 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 106,   Downloads (Overall):

Over the past few years, Java has evolved into a mature platform for developing ente
factor for the commercial success of these applications is end-to-end performance, e.
throughput and availability. ...

Keywords: performance measurement and monitoring of java applications

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6 Fast algorithm for creating space efficient dispatching tables with application to n
Yoav Zibin, Joseph Yossi Gil
November 2002 **OOPSLA '02:** Proceedings of the 17th ACM SIGPLAN conference on Obje
systems, languages, and applications

Publisher: ACM ◇ Request Permissions

Full text available: 🗎 Pdf (312.23 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 37,   Downloads (Overall): 4

The dispatching problem can be solved very efficiently in the single-inheritance~ (SI)
how to extend one such solution to the multiple-inheritance~ (MI) setting. This gener
to the space requirement ...

Also published in:
November 2002 **SIGPLAN Notices** Volume 37 Issue 11

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7 Composing crosscutting concerns using composition filters
Lodewijk Bergmans, Mehmet Aksit
October 2001 **Communications of the ACM** , Volume 44 Issue 10

Publisher: ACM ◇ Request Permissions

Full text available: 🖥 Html (29.88 KB), 🗎 Pdf (144.84 KB) Additional Information: full citation, appendices
                                                                                    index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 208,   Downloads (Overall):

8

A fine-grained access control system for XML documents
Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Sama
May 2002   **Transactions on Information and System Security (TISSEC)** , Volume
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (330.60 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 218, Downloads (Overall):

Web-based applications greatly increase information availability and ease of access, \
information. The distribution and sharing of information via the Web that must be acc
electronic commerce ...

Keywords: Access control, World Wide Web, XML documents, authorizations specific

9 Separating access control policy, enforcement, and functionality in extensible sy
Robert Grimm, Brian N. Bershad
February 2001 **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 1
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (164.03 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 101, Downloads (Overall):

Extensible systems, such as Java or the SPIN extensible operating system, allow for
added to a running system in almost arbitrary fashion. Extensions closely interact thr
interfaces to ...

Keywords: Java, SPIN, access check, auditing, extensible systems, policy-neutral en
protection domain transfer, security policy

10 XML implementation of frame processor
Tak Wong, Stan Jarzabek, Soe Myat Swe, Ru Shen, Hongyu Zhang
May 2001   **SSR '01:** Proceedings of the 2001 symposium on Software reusability: put
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (250.34 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 30, Downloads (Overall):

A quantitative study has shown that frame technology [1] supported by Fusion toolse
tomarket (70%) and project costs (84%). Frame technology has been developed to h
business software product families. ...

Keywords: frame technology, product families, variant requirements

Also published in:
  May 2001 **SIGSOFT Software Engineering Notes** Volume 26 Issue 3

11 Chessbrain: a linux-based distributed computing experiment
Carlos Justiniano
September 2003 **Linux Journal** , Volume 2003 Issue 113
Publisher: Specialized Systems Consultants, Inc.
Full text available: 📄 Html (20.87 KB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 3, Downloads (Overall): 13

Try your skill against a worldwide network of chess-playing computers, or offer your
people.

12 An innovative design approach to build virtual environment systems

M. Oliveira, J. Crowcroft, M. Slater

May 2003   **EGVE '03:** Proceedings of the workshop on Virtual environments 2003

Publisher: ACM

Full text available: Pdf (781.01 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Downloads (Overall): 7

A Virtual Environment (VE) presents a complex problem with interesting non-trivial c
development. The majority of existing systems supporting VE are based on monolithi
maintenance and software reuse difficult ...

Keywords: component frameworks, java, online games, system design, virtual envir

13 A survey of customizability in operating systems research

G. Denys, F. Piessens, F. Matthijs

December 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 4

Publisher: ACM Request Permissions

Full text available: Pdf (149.83 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 311, Downloads (Overall):

An important goal of an operating system is to make computing and communication
efficient way to the applications that will run on top of it. To achieve this result, the o
number of policies ...

Keywords: Customizability, microkernels, operating systems, software protection m

14 Static reflector: a pattern for object-oriented access to non-object-oriented interfa

Bob Jolliffe, J. A. van der Poll

September 2003 **SAICSIT '03:** Proceedings of the 2003 annual research conference of th
computer scientists and information technologists on Enablement throug

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: Pdf (135.46 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 19, Downloads (Overall): 3

Somewhere near the bottom of the food chain of object oriented programming, the d
non object oriented API. This paper describes a specialisation of the Wrapper Facade
encapsulate functions and ...

Keywords: C++, POSIX, Tcl, Win32, concurrency, design, events, patterns

15 Web application security assessment by fault injection and behavior monitoring

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003   **WWW '03:** Proceedings of the 12th international conference on World Wid

Publisher: ACM

Full text available: Pdf (4.53 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 101, Downloads (12 Months): 719, Downloads (Overall

As a large and complex application platform, the World Wide Web is capable of delive
sophisticated applications. However, many Web applications go through rapid develop
short turnaround time, making it difficult ...

Keywords: black-box testing, complete crawling, fault injection, security assessmen

16 Re-configurable distributed scripting
M. Ranganathan, Laurent Andrey, Virginie Schaal, Jean-Philippe Favreau
June 1999   **Computing Surveys (CSUR)** , Volume 31 Issue 2es
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (38.88 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 38, Downloads (Overall): 3

Several distributed testing, control and collaborative applications are reactive or ever
applications can be structured as a set of handlers that react to events and that in tu
have developed an ...

17 The design and performance of a scable ORB architecture for COBRA asynchro
Alexander B. Arulanthu, Carlos O'Ryan, Douglas C. Schmidt, Michael Kircher, Jeff Parson
April 2000   **Middleware '00:** IFIP/ACM International Conference on Distributed system
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (174.72 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 32, Downloads (Overall):

*Historically, method-oriented middleware, such as Sun RPC, DCE, Java RMI, COM, an
synchronous method invocation (SMI) models to applications. Although SMI works w
applications, it is not well-suited ...*

18 Portable resource control in Java
Walter Binder, Jane G. Hulaas, Alex Villazón
November 2001   **OOPSLA '01:** Proceedings of the 16th ACM SIGPLAN conference on Obj
        systems, languages, and applications
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (307.08 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 65, Downloads (Overall):

Preventing abusive resource consumption is indispensable for all kinds of systems tha
such as mobile object sytems, extensible web servers, and web browsers. To implem
mechanisms, some support for ...

Keywords: Java, bytecode rewriting, micro-kernels, mobile object systems, resourc

Also published in:
November 2001 **SIGPLAN Notices** Volume 36 Issue 11

19 Developing flexible and high-performance Web servers with frameworks and pat
Douglas C. Schmidt, James C. Hu
March 2000   **Computing Surveys (CSUR)** , Volume 32 Issue 1es
Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (196.91 KB)   Additional Information: full citation, references, cited by, inde

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 75, Downloads (Overall):

Keywords: WWW, distrubted software systems, dsign patterns, object-oriented appl

20 Specialization tools and techniques for systematic optimization of system softwa
Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasic, Ashvin G
Gilles Muller, Renaud Marlet
May 2001   **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 2

Publisher: ACM ◇ Request Permissions
Full text available: 📄 Pdf (178.52 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 66,   Downloads (Overall): 60

Specialization has been recognized as a powerful technique for optimizing operating s
has not been broadly applied beyond the research community because current techni
specialization, are time-consuming ...

Keywords: operating system specialization, optimization, software architecture